INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/01760

A. CLASSIFICATION OF	CLID IECAT ACAMERICA	·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·	1701/03	003/01/69	
A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : B26D 1/18					
US CL : 83/490, 485, 486, 487, 488, 489, 471, 3, 472					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols)					
U.S.: 83/490, 485,486,487,488,489,471.3,473					
	• •				
Documentation conceived other star with					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
(
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
					
	cument, with indication, where	appropriate, of th	ne relevant passag	ges Relevant to claim N	₹o.
55 1,005,142 A (B)	ATO et al) 26 September 1989	(26.09.1989), see	entire document	. 1-16	
X US 5,421,228 A (F)	US 5,421,228 A (FUKINUKI) 06 June 1995 (06.06.1995), see entire document.				
	· i				ł
A US 5,239,906 A (G	US 5,239,906 A (GARUGLIERI) 31 August 1993 (31.08.1993), see entire document.				ł
	i e				ł
A US 6,470,778 B1 (R	US 6,470,778 B1 (KAYE, JR. et al) 29 October 2002 (29.10.2002), see entire document.				}
				1-16	
				İ	- 1
				1	- (
					- 1
)	1
}					- 1
					- }
				j	- 1
					- [
					J
					İ
					i
Further documents are listed	in the continuation of Box C	See .	atent family ann		
* Could be a second of the sec					
		- 14101	document published af	ter the international filing date or priority the application but cited to understand	ty
"A" document defining the general state of of particular relevance	the art which is not considered to be	princ	ple or theory underlyi	ng the invention	une
		"X" docur	nent of particular relev	vance: the claimed invention cannot be	
	on or after the international filing date	consid	lered novel or cannot i	be considered to involve an inventive str	ер
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as		when	the document is taken	alone	1
establish the publication date of anothe specified)	er citation or other special reason (as	"Y" docum	nent of particular relev	vance; the claimed invention cannot be	ı
"O" document referring to an oral disalorm		CORSIG	lered to involve an inv	ventive step when the document is other such documents, such combination	_ }
to an oral disclosur		being	obvious to a person sk	cilled in the art	ա
"P" document published prior to the interna	ational filing date but later than the	"&" docum	nent member of the sar	me patent family	ļ
priority date claimed)
Date of the actual completion of the international search		Date of mailing	of the internation	nal search report	\dashv
15 May 2003 (15.05.2003)			3 JUN 20		
Name and mailing address of the ISA/US		Authorized offi		J. D.	
Mail Stop PCT, Attn: ISA/US		fr-		Thereallower	es
Commissioner for Patents P.O. Box 1450		Jason Prone		Shella H. Veney	7 [<u>]</u>
Alexandria, Virginia 22313-1450		Telephone No.	703-308-1148	Paralegal Specialist Tech. Center 3700	- ['
Facsimile No. (703)305-3230				Tech. Center 3700	1
orm PCT/ISA/210 (second sheet) (I	uly 1000)				- 1